AMENDMENTS TO THE CLAIMS

Docket No.: 05581-00136-US

- 1. (Currently Amended) A coated, coextruded, biaxially stretched polyolefin film, which comprises at least one base layer B made of polyolefins and a top layer Z made of polyolefins modified using maleic acid anhydride, wherein a coating made of a primer, which forms the primer layer P, is applied to the surface of the top layer Z, and an inorganic coating made of lithium-potassium polysilicates, which forms a polysilicate layer, is applied to the surface of the primer layer P and the polyolefin film has an oxygen permeability at 23 °C and 50 % relative humidity of less than 1 cm³/m²*day*bar.
- 2. (Previously presented) The polyolefin film according to Claim 1, wherein the coextruded and biaxially stretched film has a further top layer on the side diametrically opposite the layer Z.
- 3. (Previously presented) The polyolefin film according to claim 1, wherein the polysilicate coating is applied from an aqueous solution of lithium and potassium polysilicates.
- 4. (Previously presented) The polyolefin film according to claim 1, wherein the polysilicate coating is a mixture of lithium and potassium polysilicates of the general formula $(\text{Li}_2\text{O})_x(\text{K}_2\text{O})_{1-x}(\text{SiO}_2)_y$, in which x is the mole fraction of Li_2O and y is the mole ratio $\text{SiO}_2:\text{K}_2\text{O}$ and x = 0.4 to < 1 and y = 1 10.
- 5. (Previously presented) The polyolefin film according to claim 1, wherein the primer layer is a layer made of PVOH.
- 6. (Previously presented) The polyolefin film according to claim 5, wherein the PVOH has a degree of hydrolysis of 85 to < 100 %.
- 7. (Previously presented) The polyolefin film according to claim 1, wherein the layer Z contains 80 to 100 weight-percent of said polyolefins and said polyolefins are a polypropylene homopolymer, propylene copolymer, or polyethylene.

Docket No.: 05581-00136-US

8. (Previously presented) The polyolefin film according to claim 7, wherein the polypropylene homopolymer, propylene copolymer, or polyethylene grafted using maleic acid anhydride has a maleic acid anhydride content of 0.05 to 3 weight-percent in relation to the weight of the polymer.

- 9. (Previously presented) The polyolefin film according to claim 1, wherein the polypropylene homopolymer, propylene copolymer, or polyethylene grafted using maleic acid anhydride has a melting point of 150 to 165 °C and a Vicat softening point of 120 to 150 °C.
- 10. (Previously presented) The polyolefin film according to claim 1, wherein the layer Z additionally contains > 0 to 30 weight-percent non-modified olefinic polymers made of propylene, ethylene, or butene units.
- (Previously presented) The polyolefin film according to claim 1, wherein the film has a 11. further top layer made of sealable polyolefinic polymers on the diametrically opposite surface of the base layer.
- 12. (Previously presented) The polyolefin film according to claim 1, wherein the layer Z has a layer thickness of 0.3 to $3 \mu m$.
- 13. (Previously presented) The polyolefin film according to claim 1, wherein first a film, which comprises at least the base layer B and the layer Z, is manufactured according to the coextrusion method, and subsequently the surface of layer Z is coated with PVOH and subsequently a polysilicate coating is applied to the PVOH coating.
- 14. (Previously presented) The polyolefin film according to claim 1, wherein the coextruded film has further coextruded layers and the film is a three-layered, four-layered, or five-layered basic film and the further layers are synthesized from polyolefins.
- 15. (Previously presented) The polyolefin film according to claim 14, wherein the coextruded film is a three-layered film having a sealable top layer on the diametrically opposite

side of the base layer, which is synthesized from propylene copolymers or propylene terpolymers.

16. (Currently Amended) The polyolefin film according to elaim-1 claim 22, wherein the polyolefin film has an oxygen permeability at 23 °C and 50 % relative humidity of less than 1 cm³/m²*day*bar.

Docket No.: 05581-00136-US

- 17. (Previously presented) A laminate made of a coated polyolefin film according to claim 1, wherein the polyolefin film is laminated into a laminate with a polyethylene film using laminating adhesive, the lamination being performed against the polysilicate-coated side.
- 18. (Previously presented) The laminate according to Claim 17, wherein the laminate has an oxygen permeability at 23 °C and 50 % relative humidity of less than 0.5 cm³/m²*day*bar.
- 19. (Previously presented) The laminate according to claim 17, wherein a solvent-free laminating adhesive is used for the lamination.
- 20. (Previously presented) A method for manufacturing a coated film, wherein a coextruded, biaxially stretched film is manufactured which has a base layer B and a first top layer Z and a second top layer made of sealable polyolefins, the layer Z being synthesized from polyolefin grafted with maleic acid anhydride and the surface of the layer Z being provided with a PVOH coating and a polysilicate coating being applied from aqueous solution onto the surface of the PVOH coating.
- 21. (Previously presented) The polyolefin film according to claim 9, wherein the layer Z additionally contains > 0 to 30 weight-percent non-modified olefinic polymers made of polyethylene, polypropylene, propylene terpolymers, and propylene copolymers.
- 22. (New) A coated, coextruded, biaxially stretched polyolefin film, which consists essentially of at least one base layer B made of polyolefins and a top layer Z made of polyolefins modified using maleic acid anhydride, wherein a coating made of a primer, which forms the primer layer P, is applied to the surface of the top layer Z, and an inorganic coating made of

Application No. 10/535,577 Reply to Office Action of July 10, 2009

lithium-potassium polysilicates, which forms a polysilicate layer, is applied to the surface of the primer layer P.

Docket No.: 05581-00136-US

- 23. (New) The polyolefin film according to Claim 22, wherein the coextruded and biaxially stretched film has a further top layer on the side diametrically opposite the layer Z and the polysilicate coating is applied from an aqueous solution of lithium and potassium polysilicates.
- 24. (New) The polyolefin film according to claim 23, wherein the polysilicate coating is a mixture of lithium and potassium polysilicates of the general formula $(\text{Li}_2\text{O})_x(\text{K}_2\text{O})_{1-x}(\text{SiO}_2)_y$, in which x is the mole fraction of Li₂O and y is the mole ratio SiO₂:K₂O and x = 0.4 to < 1 and y = 1 10 and the primer layer is a layer made of PVOH which has a degree of hydrolysis of 85 to < 100 %.